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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/692,988		10/24/2003	Michael D. Kotzin	CS23202RA	1736
20280	7590	05/17/2005		EXAMINER	
MOTORO		HWAV 45	NGUYEN, KHAI MINH		
ROOM AS437				ART UNIT	PAPER NUMBER
LIBERTYVILLE, IL 60048-5343				2687	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/692,988	KOTZIN ET AL.					
Office Action Summary	Examiner	Art Unit					
•	Khai M Nguyen	2687					
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the penod for reply specified above is less than thirty (30) days, a reply - If NO penod for reply is specified above, the maximum statutory period of - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timy within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE!	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status	•						
1)⊠ Responsive to communication(s) filed on <u>24 O</u>	ctober 2003.						
3) Since this application is in condition for alloward	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
 5) Claim(s) 19-21 is/are allowed. 6) Claim(s) 1,2,4-12 and 14-18 is/are rejected. 7) Claim(s) 3 and 13 is/are objected to. 	4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) <u>19-21</u> is/are allowed. Claim(s) <u>1,2,4-12 and 14-18</u> is/are rejected.						
Application Papers							
9)☐ The specification is objected to by the Examine 10)☒ The drawing(s) filed on 24 October 2003 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)☐ The oath or declaration is objected to by the Ex	: a)⊠ accepted or b)□ objected drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	· —-						
Paper No(s)/Mail Date 10/24/03.	6) [_] Other:						

DETAILED ACTION

Information Disclosure Statement

1. The references listed in the Information Disclosure Statement filed on October 24, 2003 have been considered by the examiner (see attached PTO-1449 form or PTO/SB/08A and 08B forms).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-2, 4-6, 14,18 are rejected under 35 U.S.C. 102(e) as being anticipate by Himmelstein (U.S.Pub-20040162064).

Regarding claim 1, Himmelstein teaches a method in a wireless handheld communication device for reducing a communication delay at a proximate wireless communication device (fig.1, abstract) comprising:

...**.**

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communicating a first communication on first link to a proximate wireless communication device (fig.1, paragraph 0002, 0011-0012, allows mobile vehicles to communicate with neighboring vehicles and roadside communication networks); and

communicating simultaneously with communicating said first communication (fig.1, paragraph 0002, 0011-0012, each mobile unit is capable of operating as both a requesting unit and a target unit), a second communication on a second link to a base station (fig.1, paragraph 0002, 0011-0012, 0028, each mobile unit 16 can communicate with another mobile unit 16, the closest base station 14), wherein said first communication and said second communication are substantially the same (paragraph 0028).

Regarding claim 2, Himmelstein teaches the method of claim 1, wherein communicating said second communication further comprises communicating said second communication to a remote device by relaying said second communication through said base station to said remote device (fig.1, paragraph 0028-0029).

Regarding claim 4, Himmelstein teaches the method of claim 1, further comprising prior to communicating said first communication to said proximate wireless communication device (paragraph 0002, 0011-0012, *allows mobile vehicles to communicate with neighboring vehicles and roadside communication network*) receiving from a wireless local area network (paragraph 0002), a notification that at least one said

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proximate wireless communication device is currently connected to said wireless local area network (paragraph 0012, 0075, 0093).

Regarding claim 5, Himmelstein teaches the method of claim 1, further comprising activating a push-to-talk communication button or a send key prior to the step of communicating said first communication (paragraph 0004).

Regarding claim 6, Himmelstein teaches the method of claim 2, wherein said first link is a direct link to said proximate wireless communication device for communicating said first communication with a reduced audio latency relative to said second communication relayed through said base station to said remote device (paragraph 0002, 0007, 0028-0029).

Regarding claim 14, Himmelstein teaches a method in a wireless communication system (fig.1, abstract) comprising:

receiving a first device channel assignment at a first device (fig.1, paragraph 0011, 0028-0029), said first device channel assignment comprising a first device uplink channel (fig.1, paragraph 0011, 0028-0029); and

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informing a second device, proximate to said first device, of said first device channel assignment (paragraph 0002, 0028-0029).

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Regarding claim 18, Himmelstein teaches a method in a communication device for reducing the audio latency at a proximate communication device (fig.1, abstract) comprising:

transmitting a first communication over a first direct link to a proximate communication device (fig.1, paragraph 0002, 0011-0012, allows mobile vehicles to communicate with neighboring vehicles and roadside communication networks); and

transmitting, simultaneously with transmitting said first communication (fig.1, paragraph 0002, 0011-0012, each mobile unit is capable of operating as both a requesting unit and a target unit), a second communication to a base station over a second link, different from said first link (fig.1, paragraph 0002, 0011-0012, 0028, each mobile unit 16 can communicate with another mobile unit 16, the closest base station 14),

wherein said first communication and said second communication are substantially the same (paragraph 0028).

Claim Rejections - 35 USC § 103

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3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims **7-12**, **15-17** are rejected under 35 U.S.C. 103(a) as being unpatentable over Himmelstein (U.S.Pub-20040162064) in view of Carro (U.S.Pat-6580909).

Regarding claim 7, Himmelstein teaches the method of claim 6,

Himmelstein fails to specifically disclose an identifying said proximate wireless communication device as a wireless communication device, proximate to said wireless handheld communication device. However, Carro teaches an identifying said proximate wireless communication device as a wireless communication device (fig.1-2, abstract, col.5, lines 8-40), proximate to said wireless handheld communication device (fig.1-2, abstract, col.3, line 58 to col.4, line 33). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use an identifying said proximate wireless communication device as a wireless communication device, proximate to said wireless handheld communication device as taught by Carro with Himmelstein teaching in order to provides a system and method of forming a network, out of a plurality of mobile communications units sharing a common transmission medium without requiring a base station.

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Regarding claim 8, Himmelstein and Carro further teaches the method of claim 7, wherein said step of identifying said proximate wireless communication device (see Carro, fig.1-2) comprises:

transmitting a proximate device request message (paragraph 0093); and receiving a proximate device response message from said proximate wireless communication device in response to said transmitting said proximate device request message (paragraph 0093, see Carro, fig.1-2, col.4, lines 12-33).

Regarding claim 9, Himmelstein and Carro further teaches the method of claim 7, wherein said step of identifying said proximate wireless communication device comprises receiving a proximate device notification message from said base station (paragraph 0028-0029, 0093, see Carro, col.5, lines 7-28), said proximate device notification message identifying said proximate wireless communication device (see Carro, fig.1-2, col.5, lines 30-40), as a wireless communication device, proximate to said wireless handheld communication device (see fig.1-2, col.5, lines 7-40).

Regarding claim 10, Himmelstein and Carro further teaches the method of claim 9, further comprising:

establishing said first link with said proximate wireless communication device identified in said proximate device notification message from said base station

(paragraph 0028-0029, 0093, see Carro, col.5, lines 7-28), wherein said first link with said proximate wireless communication device is a direct link between said wireless communication device and said proximate wireless communication device (fig.1-2, abstract, col.3, line 58 to col.4, line 33); and

establishing said second link with said remote device through said base station (see Carro, fig.1, col.5, lines 8-29).

Regarding claim 11, Himmelstein and Carro further teaches the method of claim 8, further comprising prior to said step of transmitting said proximate device request message (paragraph 0093), activating a push-to-talk communication button or a send key (paragraph 0004-0005).

Regarding claim 12, Himmelstein and Carro further teaches the method of claim 7, wherein said step of identifying said proximate wireless communication device comprises initiating an ad hoc network with at least one proximate wireless communication device (fig.1, paragraph 0012).

Regarding claim 15, Himmelstein teaches the method of claim 14,

Himmelstein fails to specifically disclose an communicating an audio signal on said first device uplink channel with a base station. However, Carro teaches an communicating an audio signal on said first device uplink channel with a base station (fig.1-2, col.5, lines 8-40). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use an communicating an audio signal on said first device uplink channel with a base station as taught by Carro with Himmelstein teaching in order to provides a system and method of forming a network, out of a plurality of mobile communications units sharing a common transmission medium without requiring a base station.

Regarding claim 16, Himmelstein and Carro further teaches the method of claim 15 further comprising monitoring directly by said second device (see Carro, fig.1-2, col.5, lines 8-40), said audio signal of said first device on said first device uplink channel (paragraph 0028-0029).

Regarding claim 17, Himmelstein and Carro further teaches the method of claim 16, further comprising:

determining that the quality of said audio signal is below a predetermined threshold (paragraph 0071);

canceling said monitoring directly said audio signal from said first device (paragraph 0075); and

monitoring said audio signal from said base station (see Carro, fig.1-2, col.4, line 53 to col.4, line 33) .

Allowable Subject Matter

4. Claims **3, 13** are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 19-21 are allowed.

The following is an examiner's statement of reasons for allowance: Prior art teaches a wireless communication device comprising: a microprocessor, a transmitter coupled to said microprocessor. However, the prior fails to teaches an transmitter capable of transmitting on a first link and a second link simultaneously, a proximate device communication module coupled to said microprocessor, said proximate device communication module communicating a first communication on first link to a proximate wireless communication device, and a wide area network communication module coupled to said microprocessor, said wide area network module communicating, simultaneously with communicating said first communication, a second communication

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on a second link to a base station, wherein said first communication and said second communication are substantially the same.

Any comments considered necessary by applicants must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Citation of Pertinent Prior Art

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Malone et al. (U.S.Pub-20040190647) discloses Direct-conversion receiver system and method with quadrature balancing and dc offset removal.

Gassho et al. (U.S.Pub-20030092395) discloses Wireless communication device.

Rosen et al. (U.S.Pub-20040171400) discloses Controller for reducing latency in a group dormancy-wakeup process in a group communication network.

Aldermeshian et al. (U.S.Pat-5745850) discloses Apparatus and method for mobile (E.G. cellular or wireless) telephone call handover and impersonation.

Ma et al. (U.S.Pat-5995500) discloses Method and apparatus for direct communication between mobile stations.

Sato et al. (U.S.Pub-20020016153) discloses Authenticating method for short-distance radio device and a short-distance radio device.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khai M Nguyen whose telephone number is 571.272.7923. The examiner can normally be reached on 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester Kincaid can be reached on 571.272.7922. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Khai Nguyen

ELISEO RAMOS-FELICIANO PATENT EXAMINER